BLAUPUNKT
PREMIUM

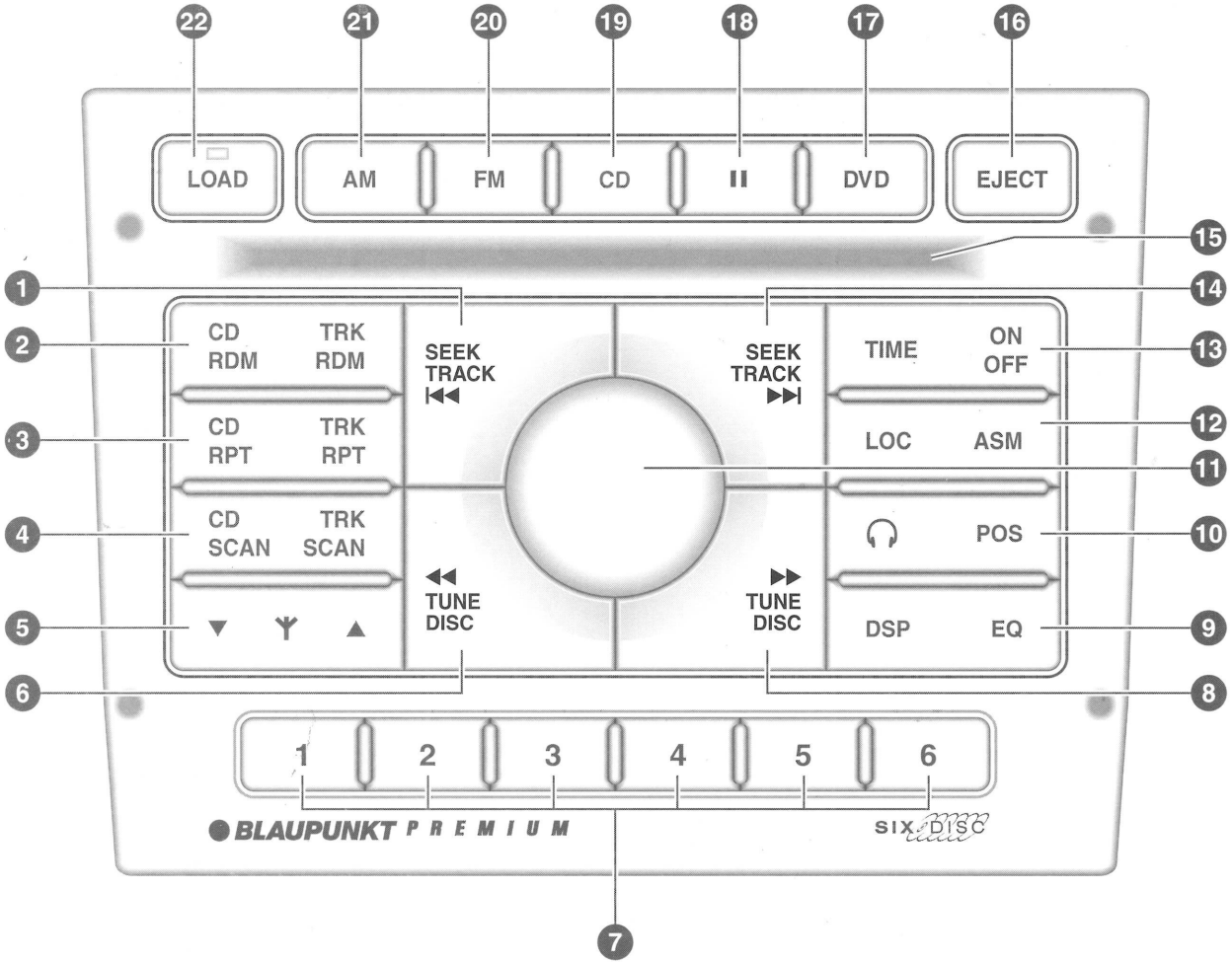
DVD VIDEO by Panasonic

# AUDIO

## Premium Sound AM / FM Radio / In-Dash CD Changer With Personal Identity Key

## Rear Seat Entertainment System With DVD

HOLDEN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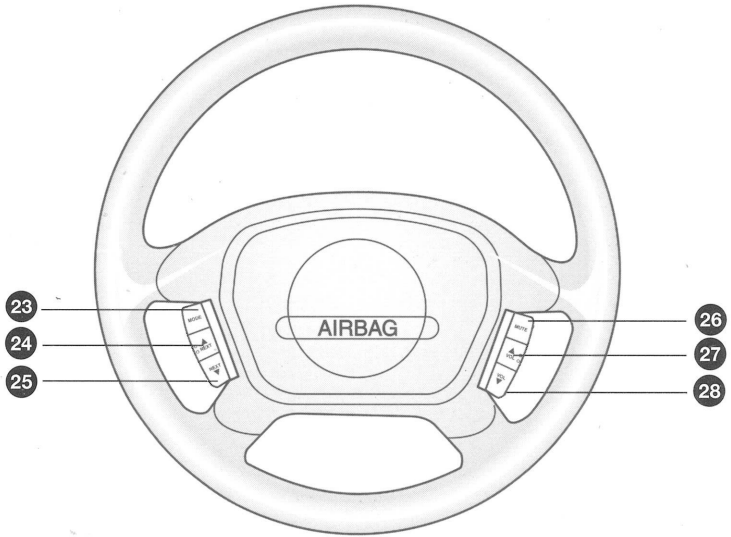
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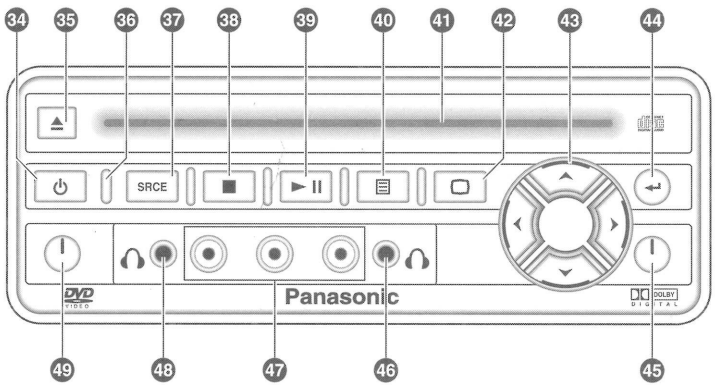
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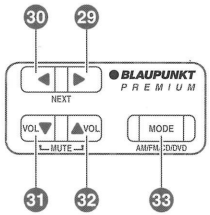
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NEXT
VOL
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AM/FM
CD/DVD
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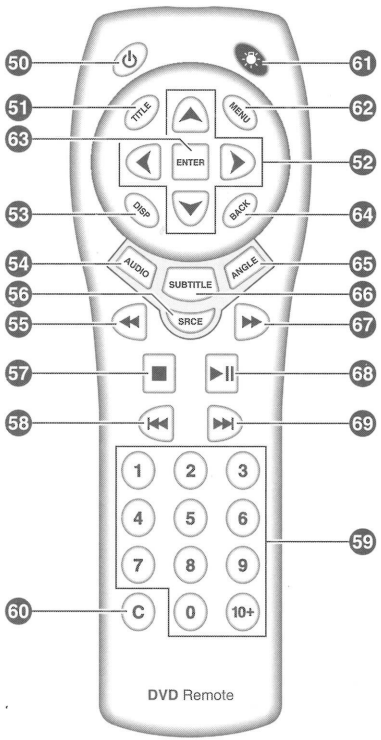
32
33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66
55
SRCE
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57
68
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DVD Remote

# Overview

## System Controls

| No. | Function |
|---|---|
| 1 | Radio Mode: Station seek (down)<br>CD Mode: Previous track<br>CD Mode: Push and hold: Track review / rewind |
| 2 | CD Mode: Random Disc Play<br>CD Mode: Random Track Play |
| 3 | CD Mode: CD Repeat<br>CD Mode: Track Repeat |
| 4 | CD Mode: CD Scan<br>CD Mode: Track Scan |
| 5 | Electric antenna height adjustment |
| 6 | Radio Mode: Manual frequency select (down)<br>CD Mode: Previous disc select |
| 7 | Radio Mode: Memory preset station select / store<br>CD Mode: Direct disc select 1 to 6 |
| 8 | Radio Mode: Manual frequency select (up)<br>CD Mode: Next disc select |
| 9 | Equalizer On / Off / Mode<br>DSP On / Off / Mode |
| 10 | Listening Position Selector<br>Headphones On / Off<br>Rear Roof Remote Controls lock / unlock (Push and Hold) |
| 11 | Volume control<br>Push: Bass / Treble / Fader / Balance / Loudness adjustment |
| 12 | Local / Distance search sensitivity<br>Automatic Station Memory storage |
| 13 | Power On / Off<br>Clock and Date display / adjust |

| No. | Function |
|---|---|
| 14 | Radio Mode: Station seek (up)<br>CD Mode: Next track<br>CD Mode: Push and hold: Track cue / fast forward |
| 15 | Disc load / remove slot |
| 16 | CD Eject button |
| 17 | DVD source button |
| 18 | CD pause button |
| 19 | CD source button |
| 20 | FM source button |
| 21 | AM source button |
| 22 | CD Load Button<br>Security Indicator Light<br>CD Mode: Load and Eject Indicator Light |

# Overview

## Steering Wheel Remote Controls

| No. | Symbol | Function |
|---|---|---|
| 25 | MODE | Source select: CD / DVD / FM1 / FM 2 / AM etc. |
| 24 | ▲ NEXT | Radio Mode: Next preset station<br>CD Mode: Next track<br>CD Mode: Push and hold: Next disc |
| 23 | NEXT ▼ | Radio Mode: Previous preset station<br>CD Mode: Previous track<br>CD Mode: Push and hold: Previous disc |
| 26 | MUTE | Mute Volume |
| 27 | ▲ VOL | Increase Volume |
| 28 | VOL ▼ | Decrease Volume |

## Roof Remote Controls

| No. | Symbol | Function |
|---|---|---|
| 29 | ▶ NEXT | Radio Mode: Next preset station<br>CD Mode: Next track<br>CD Mode: Push and hold: Next disc |
| 30 | NEXT ◀ | Radio Mode: Previous preset station<br>CD Mode: Previous track<br>CD Mode: Push and hold: Previous disc |
| 31 | **VOL ▼** | Decrease Volume<br>Mute Volume (together with **VOL ▲** button 32) |
| 32 | **VOL ▲** | Increase Volume<br>Mute Volume (together with **VOL ▼** button 31) |
| 32 | **MODE** | Source select: CD / DVD / FM1 / FM 2 / AM etc. |

# Overview

## DVD Player Controls

| No. | Function |
|---|---|
| 34 | DVD Power On / Off |
| 35 | DVD Eject |
| 36 | DVD Player Status Light |
| 37 | DVD / Aux input Source Selection |
| 38 | DVD Stop |
| 39 | DVD Play / Pause |
| 40 | DVD Menu Button |
| 41 | DVD load / remove slot |
| 42 | Display Menu Button |
| 43 | Menu Navigation Buttons |
| 44 | Menu Enter / Select |
| 45 | Right Hand Headphone Volume Control |
| 46 | Right Hand Headphone Jack |
| 47 | Auxiliary Input Jacks |
| 48 | Left Hand Headphone Jack |
| 49 | Left Hand Headphone Volume Control |

## DVD Remote Controls

| No. | Function |
|---|---|
| 50 | DVD Power On / Off |
| 51 | DVD Title Menu Button |
| 52 | Menu Navigation Buttons |
| 53 | Display Menu Button |
| 54 | Audio Track Select Button |
| 55 | Fast Reverse Button |
| 56 | DVD / Aux input Source Selection |
| 57 | DVD Stop Button |
| 53 | Previous Track / Chapter Button |
| 59 | Numeric Keypad |
| 60 | Clear Button |
| 61 | Remote Control Illumination Button |
| 62 | DVD Menu Button |
| 63 | Enter / Select Button |
| 64 | Previous Menu Button |
| 65 | DVD Angle Select Button |
| 60 | DVD Subtitle Select Button |
| 67 | Fast Forward Button |
| 68 | Play / Pause Button |
| 69 | Next Track / Chapter Button |

# CONTENTS


**IMPORTANT INFORMATION**

Security Code 6
Setting the Clock & Date 6
Information Display 7
Security Release Procedure 7
Switching On / Off 8
Personal Identity Keys 9
Source (Mode) Selection 10

**AUDIO SETTINGS**

Volume 10
Bass / Treble 10
Independent Tone Memories 10
Fader / Balance 11
Equalizer Function 11
Equalizer Off 11
Loudness Contour Circuit 11
DSP Function 12
DSP DELAY Adjustment 12
DSP ECHO Adjustment 12
Listening Position (POS) 12, 13

**RADIO OPERATION**

Radio Display 13
Selecting a Waveband 13
Manual Tuning 14
Automatic Seek Tuning 14
Local / Distance Selector 14
Storing Stations 14
Recalling Stored Stations 14
Automatic Radio Station Memory (ASM) 15
Antenna Information 15
Radio Reception 16, 17

**CD CHANGER OPERATION**

CD Display 18
Loading a CD 18
Ejecting a CD 19
Playing CDs 19
Stopping a CD 19
Disc, Track Selection 20
CD Scan, CD Repeat, CD Random 20
Track Scan, Track Repeat, Track Random 21
Notes on Compact Discs & DVDs 22

# CONTENTS


DVD PLAYER OPERATION

DVD Player 23
Video Screens 23
DVD Remote Control 23
Battery Replacement 24
Playable Disc Types 24
Loading a DVD 24
Ejecting a DVD 25
Selecting DVD Mode 25
Playing DVDs 25
Resume Playback 25
Stopping DVD Playback 26
Pausing a DVD 26
Chapter Selection 26
Fast Forward / Fast Back 26
Error messages from the DVD player 26
On-Screen Menu's 27
Display Menu 27
To Adjust Brightness 27
To Adjust Colour 28
To Adjust Contrast 28
To Adjust Tint 29
To adjust Display Mode 29
Track/Chapter Information 30
Advanced DVD Video Features 30
Invalid Operation Icon 30
DVD Title Menu 30
DVD Menu 30
Selecting a scene angle of DVD Video 31
Subtitles Selection 31
Audio Language Selection 32
Auxiliary Input (RCA) Jacks 32
How to Change the Video Format when in the Auxiliary Mode 33

REMOTE CONTROLS

Steering Wheel Remote Controls 34
Rear Roof Remote Controls 35
DVD Remote Control 36

REAR SEAT ENTERTAINMENT

HeadPhones & Multi Mode Operation 36
Multi-Mode Operation 37
Rear Roof Remote Control Locking / Unlocking 37
Rear Roof Remote Control Operation With Headphones 37

ADDITIONAL FEATURES

Confirmation Beeps 39
Speed Dependent Volume (SDV) 40
Dynamic Distortion Limiting (DDL) 40
Options Menu Adjustment 41
Master Reset 41
Car Telephone 42

# IMPORTANT INFORMATION

## Security Code

Your radio includes an electronically coded security system. This electronically links the radio to your car. Under normal circumstances you will be unaware of it's operation and shouldn't need to take any action to enable the radio to work, even if the car's battery has been disconnected and re-connected.

If for some reason the electronic link is disrupted, the radio will prompt you for a 4-digit PIN code to be entered. This number is printed on the Security Card located in the glovebox (together with your Owner's Handbook).

Because the PIN code is the only means of enabling operation of the radio if it prompts you for a code (and would allow the radio to be used if stolen), we recommend that the Security Card is kept in a safe place and NOT IN THE GLOVEBOX OF YOUR CAR.

If your card is lost, and the PIN code is not recorded elsewhere, the PIN can be requested from your Holden Retailer after supplying the relevant proof of ownership. There may be a charge for this service.

Please refer to the Security Release Procedure on next page for how to enter the PIN code.

### Security Indicator Light 22

**Please Note:**
For added security a small red light on the radio blinks while the ignition is off.

## Setting the Clock & Date

**Please Note:**
The clock and date can be adjusted when the radio is either on or off.

Adjust the clock and date as follows:

1. Press and hold the **TIME** button 13 for more than 2 seconds. The display will show the time and date. The hours will flash.
2. Adjust the hours using the SEEK TRACK ⏮ 1 and SEEK TRACK ⏭ 14 buttons.
3. To adjust the minutes press the **TIME** button 13 once more.
4. Adjust the minutes using the SEEK TRACK ⏮ 1 and SEEK TRACK ⏭ 14 buttons.
5. Repeat this procedure until the year, month and date are set.
6. To exit this mode press the **TIME** button 13 once more.

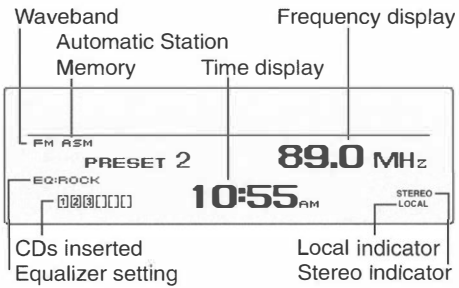
**Please Note:**
The radio will automatically exit this mode if no adjustments are made for 8 seconds.

# IMPORTANT INFORMATION

## Information Display

All of the relevant information for radio and CD can be found on the vehicle's Information Display located on the dashboard above the centre vents. Some radio information may also be shown on the main trip computer display. Refer to the relevant section of the Owner's Handbook for further information.

The date can be temporarily displayed by pressing the **TIME** button (13).




## Security Release Procedure

1. Turn the ignition switch to the accessories position.
2. Switch on the radio, if turned off.
3. The display shows 'CODE 1 – – – –'.
4. Use the preset buttons to enter the PIN code.

**Example:**

If the PIN code belonging to the radio is 3651.

| Preset Button | Display |
|---|---|
| Press preset button [3] | 3 – – – |
| Press preset button [6] | 3 6 – – |
| Press preset button [5] | 3 6 5 – |
| Press preset button [1] | 3 6 5 1 |

If a wrong PIN code is entered the display will show 'CODE ERROR WAIT'.

After a few seconds 'CODE 2 – – – –' will be shown on the display indicating that this is the second attempt. The correct code should now be entered. After three attempts the display will show 'ONE HOUR LOCK – OUT'

After about one hour the radio will allow another three attempts to enter the PIN.

# Switching On / Off

### ON/OFF button 13

Switch the radio on and off by pressing the ON/OFF button 13.

### On / Off (Using ignition key)

The radio can operate when the ignition key is turned to the Accessories postion. When the car's Accessories Control is turned off by turning the ignition key off (and opening the drivers door - refer Vehicle Owner's Handbook for further details) the radio (if operating) will be switched off. When the key is switched to the Accessories position again, the radio will also be switched on.

### On / Off (Without ignition key)

The radio can also be switched on and off without using the car's ignition key by pressing the ON/OFF button 13. The radio will operate for approximately 1 hour. Once this period has elapsed the radio automatically switches off and will not operate until the ON/OFF button 13 is pressed again, or the ignition key is in the Accessories or Ignition position.

### On / Off (When Accessories or Ignition is on)

When the ignition key is in the Accessories or Ignition position the radio can be turned on (if off) with the following buttons:

- ON/OFF button 13
- **DVD** button 17
- **CD** button 19
- **FM** button 20
- **AM** button 21
- CD **LOAD** button 22
- **MODE** button 23 on steering wheel remote control or **MODE** button 33 on rear roof remote control (only if it is not locked - refer to page 37)

# Personal Identity Keys

### Memory 1 and Memory 2

This radio features Personal Identity Memories, which provides two different memories of electronic settings for different ignition keys. Refer to your Owner's Handbook for information about other adjustable features, e.g. Climate Control settings.

For the sound system the following settings are individually memorised by the key system and become unique to the particular key:

- Radio On or Off
- Last used Volume level
- Last used Mode (AM, FM, CD or DVD)
- FM1, FM2, AM, FM ASM, AM ASM – Radio Memory Presets
- Power antenna height
- Bass, Treble and Loudness settings
- Speaker Balance and Fader settings
- Additional features listed on page 39 and page 40
- Equalizer and Boost settings
- Listening Position (POS) setting
- Digital Signal Processing (DSP) sound effects including echo and delay settings
- Headphones - on/off, last used mode and volume (only if headphones remain connected)
- Rear Roof Remote Controls locked / unlocked
- Telephone - Volume, Bass, Treble, Fader and Balance settings (if a suitable mobile telephone handsfree kit is connected to the audio system)
- CD track and disc settings

When entering the Radio Memory Presets for the first time they will be automatically stored for both Personal Identity Keys. If these presets are later changed when using a different Personal Identity Key, they will become specific for that key only, and so from that point on will be unique to that key.

# Source (Mode) Selection

The radio mode can be selected by any of the following actions:

- Pressing the ON/OFF button 13 if the previously played source was radio.
- Pressing the **FM** button 20.
- Pressing the **AM** button 21.
- Pressing the steering wheel remote control **MODE** button 23.
- Pressing the rear roof remote control **MODE** button 33 (only if it is unlocked).

The CD mode can be selected by any of the following actions:

- Pressing the **ON** button 13 if the previously played source was CD.
- Pressing the **CD** button 19 if the radio or DVD mode is on.
- Pressing the **LOAD** button 22 to load a CD if the radio is on
- Pressing the steering wheel remote control **MODE** button 23.
- Pressing the rear roof remote control **MODE** button 33 (only if it is unlocked).

The DVD mode can be selected by any of following actions:

- Pressing the ON/OFF button 13 on the radio if the previously played source was DVD.
- Pressing the **DVD** button 17 on the radio.
- Pressing the steering wheel remote control **MODE** button 23.
- Pressing the rear roof remote control **MODE** button 33 (only if it is unlocked).



# Audio Settings

### Volume

Turning the knob 11 clockwise will increase the volume, turning it anti-clockwise will decrease the volume.

### Bass

To select the Bass mode, press the audio selector (Volume knob) 11 once. This will be confirmed on the display by 'BASS' and the current setting. While in this mode, turn the selector knob clockwise or anti-clockwise to adjust the bass to the desired level. After several seconds the display will return to the former mode.

### Treble

To select the Treble mode, press the audio selector (Volume knob) 11 twice. This will be confirmed on the display by 'TREBLE' and the current setting. While in this mode, turn the selector knob clockwise or anti-clockwise to adjust the treble to the desired level. After several seconds the display will return to the former mode.

**Please Note:**

If the equalizer is turned on, BASS and TREBLE will be replaced by BOOST in the audio menu (refer to 'Equalizer Function' on page 11).

### Independent Tone Memories

This radio is equipped with Independent Tone Memories. Bass and Treble can be independently set for each listening mode such as AM, FM, CD, DVD and Telephone.
After all individually preferred tone settings have been stored, while using one particular ignition key, the same procedure can be repeated with different settings while the other ignition key is used.

### Fader
To shift sound towards the rear or front, press the audio selector (Volume knob) 11 several times until 'FADER' and the current setting is displayed. While in this mode, turn selector knob clockwise or anti-clockwise to shift the sound towards the front or rear. After several seconds the display will return to the former mode.

### Balance
To shift the sound towards the right or the left, press the audio selector (Volume knob) 11 several times until 'BALANCE' and the current setting is displayed. While in this mode, turn selector knob clockwise or anti-clockwise to shift the sound towards the right or left. After several seconds the display will return to the former mode.

## Equalizer Function 9
The radio is equipped with five pre-programmed equalizer curves. Each of these curves have been factory programmed to tonally enhance a particular style of music, however it may be used with any type. To turn this function on or off, or to scroll through the five EQ curves, press the **EQ** button 9 one or more times.

The five pre-programmed settings are:
- Rock
- Pop
- Jazz
- Classical
- Vocal
- and off.

When the equalizer is in use, the Bass and Treble controls are deactivated.

### Equalizer Off
The equalizer function can be turned off by pressing the **EQ** button 9 one or more times until 'EQ : OFF' appears on the display. It can also be turned off by pressing and holding the **EQ** button 9, for more than two seconds. The previously used Bass and Treble settings will then be restored.

### Equalizer Boost
While any equalizer style (e.g. Rock, Pop, etc.) is being used, the amount of enhancement of that style can be altered. Press the volume knob 11 once. 'BOOST' will be shown on the display together with the current setting. Five levels of boost are available (-2, -1, 0, +1, +2). While in this mode turn the volume knob 11 clockwise or anti-clockwise to alter the level of boost. After several seconds the display will return to the former mode.

**Please Note:**
Different amounts of boost can be set for each of the five EQ curves.

### Loudness Contour Circuit
A user selectable loudness contour circuit, to enhance the Bass and Treble response at low volume levels, can be activated if you feel that the sound system needs more bass and treble at low listening levels.
To activate, select Bass or Treble by pressing the Audio Selector (Volume knob) 11. While 'Bass' or 'Treble' is being shown on the display, press the **LOC** button 12 until 'LOUDNESS ON' appears on the display.

**Please Note:**
If the EQ function is on, the loudness contour cannot be altered. Refer to the 'Equalizer Function' section on this page for information on how to turn the EQ function off.

## DSP Function 9

The radio is equipped with five pre-programmed DSP effects (Digital Sound Processing). Each of these effects has been factory programmed to simulate a particular type of performance venue. To turn this function on or off, or to scroll through the five DSP effects, press the **DSP** button 9 one or more times.

The five pre-programmed effects are:

- Concert Hall
- Cathedral
- Stadium
- Club
- Theatre
- and off

**Please Note:**

- When any DSP effect is in use it can be adjusted by varying two items - 'DELAY' and 'ECHO' that are added to the audio settings, and can be set independently for each of the five DSP effects.
- DSP is not available if headphones are being used

### DSP DELAY Adjustment

(only when DSP is in use)

To adjust the amount of Time Delay for the DSP effect currently being used, press the Audio Selector (Volume knob) 11 several times until 'DELAY' is shown on the display. While in this mode, turn the selector knob clockwise or anti-clockwise to increase or decrease time delay.

The adjustment range shown on the display can be varied between -3, -2, -1, 0 (standard), +1, +2 and +3. After several seconds the display will return to the former mode.

### DSP ECHO Adjustment

(only when DSP is in use)

To adjust the amount of Echo for the DSP effect currently being used, press the Audio Selector (Volume knob) 11 several times until 'ECHO' is shown on the display. While in this mode, turn the selector knob clockwise or anti-clockwise to increase or decrease the amount of Echo.

The adjustment range shown on the display can be varied between -3, -2, -1, 0 (standard), +1, +2 and +3. After several seconds the display will return to the former mode.

### DSP Off

The DSP function can be turned off by pressing the **DSP** button 9 one or more times until 'DSP OFF' appears on the display. It can also be turned off by pressing and holding the **DSP** button 9 for more than two seconds.

## Listening Position (POS) 10

The radio is equipped with four pre-programmed listening position settings. With the feature selected, the sound in your car is modified in a way that optimises the sound field around the selected listening position by digitally altering the time delays from each speaker channel. You can select the optimisation for the driver, front passenger, driver and front passenger or for all passengers.

To turn this function on or off, or to scroll through the four listening positions, press the **POS** button 10 one or more times.

The four optimised settings are:

- Driver
- Passenger
- Front
- All
- and off

### POS Off

This function can be turned off by pressing the **POS** button ⑩ one or more times until 'POSITION OFF' appears on the display. It can also be turned off by pressing and holding the **POS** button ⑩ for more than two seconds.

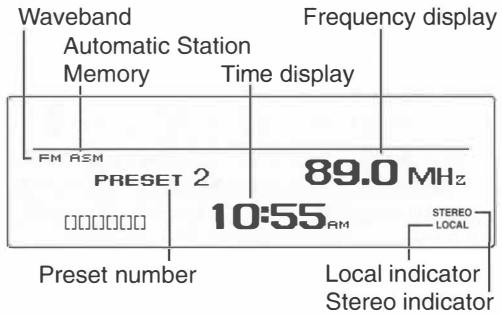
**Please Note:**

- Because the Listening Position interacts with the Fader and Balance settings (in addition to time delays), they will not be adjustable in this mode. 'FADER' and 'BALANCE' will still appear in the Audio menu, however the indicator for their current settings will not be visible. If the Audio Selector (Volume) control is turned whilst they are displayed, the Listening Position feature will be cancelled and the last used Fader and Balance settings will resume and be shown on display.
- The Listening Position function will not be available if headphones are being used.



# Radio Operation

### Radio Display




## Selecting a Waveband

By pressing the **AM** button ㉑ **or FM** button ⑳ respectively, one AM and two FM bands (FM1 & FM2) can be selected. The chosen band will be confirmed on the display. If the ASM mode is being used ('ASM' appears on the display), then one AM band and one FM band can be selected. For further information on the ASM mode, refer to the 'Automatic Radio Station Memory' section on page 15.

### Stereo Broadcast

When a stereo broadcast is received in FM, 'STEREO' appears on the display. If the radio signal becomes weak the radio automatically switches to mono but 'STEREO' may still be shown on the display.

### Manual Tuning

Pressing the TUNE DISC button 8 or the TUNE DISC button 6 will tune up or down the frequency band. The frequency will change in steps of 9 kHz for AM and 0.1 MHz for FM.

### Automatic Seek Tuning

This function seeks radio stations automatically. Pressing the the SEEK TRACK button 14 will automatically select the next higher frequency radio station. Pressing the SEEK TRACK button 1 will automatically select the next lower frequency radio station. As the radio can seek weak and noisy distant radio stations, it is recommended to switch the radio to LOCAL mode unless no strong stations can be found (see 'Local / Distance Selector' below).

### Local / Distance Selector 12

The LOCAL function reduces the radio's seek sensitivity in AM and FM modes. This will cause the SEEK tuning to stop only on stations with strong signals.
When the LOCAL function is on, 'LOCAL' will be shown on the display. If you are performing a SEEK function in an area where few or no stations can be found with LOCAL on, you may choose to turn LOCAL off so weaker stations may also be found.
When LOCAL is turned off the radio's treble is reduced slightly to help reduce the high frequency noise normally found with weak signals from distant radio stations. For the best possible sound quality, it is recommended to keep the LOCAL function turned on when listening to strong local stations.

**Please Note:**
The Local / Distance selector has no effect when the ASM search feature is being used.

## Storing Stations

Storage locations for 30 stations are available.

- 6 x FM1
- 6 x FM2
- 6 x AM
- 6 x FM ASM
  (Automatic Store Memory FM Stations)
- 6 x AM ASM
  (Automatic Store Memory AM Stations)

### Storing a Radio Station into a Preset

1. Select the required waveband, AM, FM1 or FM2 using the **AM** 21 or **FM** 20 buttons.
2. Tune to the desired station by means of:
   - Automatic seek tuning or
   - Manual tuning
3. Press and hold the desired preset button **1** to **6** 7 until the selected preset number is displayed. The radio is briefly muted or a beep is heard (if beeps are turned on, refer to section headed 'Confirmation Beeps' on page 39 of this handbook), indicating that the chosen radio station is stored into the preset.
   The previously stored station is replaced. The selected preset number '1' to '6' appears on the display.
4. Program the other preset buttons in the same way.
5. Repeat the same procedure for the other wavebands AM, FM1 and FM2.

## Recalling Stored Stations

Select a waveband, AM or FM.

Briefly press the desired preset button **1** to **6** 7.

To select one of the stations stored with Auto-Store, select the AM or FM waveband, then briefly press the **ASM** button 12. Now press the desired preset button.

## Automatic Radio Station Memory (ASM) 12

This feature allows the storage of an extra 6 AM and 6 FM radio stations. It is of great benefit when travelling long distances, such as on holidays, as the strongest radio stations can be stored without knowing their frequency. This does not delete the stations already stored on FM1, FM2 or AM.

### Programming by Automatic Storing

1. Select the desired waveband with the **FM** 20 or **AM** 21 buttons.
2. Press the **ASM** button 12 for at least two seconds until the sound is briefly muted or a beep is heard (if beeps are turned on, refer to section headed 'Confirmation Beeps' on page 39 of this handbook). Search tuning starts and 'SEARCHING' appears on the display.

After the Auto-Store process has finished, the six strongest stations found in the area are stored. The radio will play the station stored on preset 1.

If you have travelled beyond the range of the stored stations, you may wish to repeat the process again to store new stronger stations.

To alternate between the ASM radio stations and your normally stored radio stations (on FM1, FM2 or AM), briefly press the **ASM** button 12.

Whenever you are using the AM ASM or the FM ASM bands, 'ASM' will also be shown on the display.

You can also store stations manually in the ASM storage locations (see 'Storing a Radio Station into a Preset' section on page 14 of this handbook).

## Antenna Information

For best radio reception it is recommended to have the antenna fully extended, however, when in areas with low tree branches etc., lowering the antenna will reduce the chance of the antenna mast being bent or damaged.

### Electric Antenna Height Control 5

With this button the electric antenna height can be adjusted while in AM or FM mode. When the radio is off or in the CD / DVD mode, the antenna is automatically lowered. When next switching to AM or FM mode the antenna will rise to the last used height.

A different antenna height can be memorised for each Personal Identity Key. Set the preferred height using the Antenna Height Control button 5 while each key is in use.

**Please Note:**

To maintain performance, the antenna should be periodically cleaned with a soft cloth, water and a mild detergent. This not only helps the antenna to retract but also aids radio reception.

If the antenna becomes bent or broken, it is suggested to have a replacement mast fitted by your Holden Reatailer. Replacement of bent or broken antennas may not be covered under warranty.

### FM Diversity Antenna System

Your radio is fitted with a second antenna system incorporated on the rear window of the car, just above the demister elements. It is used whenever multipath distortion is detected on the front mast antenna (refer to 'Peculiarities of FM Mobile Reception', on page 17). The radio monitors the amount of multipath and switches between antennas to maintain better reception.

For correct operation, the front antenna should be fully extended so that similar signal levels will be received from both antennas. If the front mast antenna is retracted, there may be some unusual variation in the treble quality noticed in some areas.

**Please Note:**

- The diversity antenna elements in the rear window are similar to those used in the demister pattern and a similar amount of care must be taken when cleaning the inside of the rear window.
- Other antennas, such as mobile phone antennas, should not be placed directly over the diversity antenna pattern to avoid interference or blocking of the signal to the diversity antenna.
- If the signal at both antennas is of poor quality an improvement cannot be expected.

## Radio Reception

Due to varying reception locations, car radios have performance limitations that may on occasions create the impression that your radio is malfunctioning. To assist you in understanding what can be expected from your radio, we have set out below how reception may vary from time to time and under certain conditions.

### AM and FM

There are two types of radio broadcasts in Australia, AM or Amplitude Modulation in which the amplitude of the signal is varied to produce the sound and FM or Frequency Modulation in which the frequency is varied to produce the sound.

### Range

AM broadcasts tend to follow the earth's curvature and also reflect from the upper atmosphere, which enables long range reception, especially after sunset.

FM transmissions are basically line-of-sight (similar to TV signals) and are reflected by buildings, mountains etc., but not by the upper atmosphere.

### Interference

Interference is caused by either natural or man made electrical disturbances. This can affect the amplitude of the signal being received. AM signals are more prone to this type of interference than FM signals. This type of interference has little or no effect on the frequency of the received signal, thus AM is susceptible to interference from power lines, fluorescent lighting, neon signs, traffic light control circuits, overhead tram wires and electrical storms. With FM reception, these amplitude variations are filtered out, leaving a relatively clear signal, (refer to 'Peculiarities of FM Mobile Reception') making this one of the major advantages of FM broadcasts.

## Peculiarities of FM Mobile Reception

A mobile FM receiver cannot be expected to continously provide the quality of FM reception you may have experienced on your home receiver. Contrary to popular opinion, FM broadcasts are not static free, and although your radio has a built-in electronic interference absorption circuit, some static will be evident from time to time, especially in areas without a direct line of sight to the transmitter.

There are two phenomena peculiar to FM reception:

- **Flutter** - As FM signals reflect off solid objects, it is possible to pass through areas of 'shadow' caused by tall buildings and/or hilly terrain, which effectively blocks out the signal. As the car passes in and out of shadow areas, the level of signal will vary at a rapid rate, creating a flutter type of interference to the signal.
- **Distortion (Multipath)** - Distortion may occur when the direct signal from the transmitter and a reflected signal reach the antenna at the same time and either cancel or aid each other, like ghosting on a TV. This results in intermittent distortion of the signal whilst moving or constant distortion when stationary, such as at a traffic light or when parked. Should this distortion occur while stationary, moving the car approximately 1 or 2 metres would on most occasions correct the problem.

To reduce this effect your car is fitted with an 'FM Diversity' radio which uses two FM antennas (Refer to 'FM Diversity Antenna System' on page 16).

To reduce the effects of interference and/or poor signal strength, several features have been included within the radio which work automatically when needed:

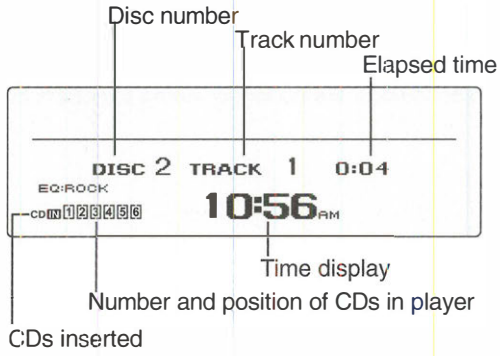
- **Noise Blanking Circuit** (FM interference suppression) To reduce pulse interference, a Noise Blanking Circuit is included.
- **Soft Muting Circuit -** The built-in Soft Muting Circuit will reduce the FM stereo separation and treble response if the signal from the radio station diminishes. This effectly lessens the amount of audible hiss and background noise that is usually heard with weaker FM signals.
- **Multipath Detection Circuit -** If repeated multipath signals are received the circuitry will switch the radio into MONO mode and slightly reduce the treble response. It will gradually return to STEREO with full treble response when multipath conditions are no longer being experienced.

# CD Changer Operation

The CD Changer holds up to six CDs at one time. The Changer is built into the radio and CDs are loaded through the single slot 15 on the front face of the radio, after pressing the **LOAD** button 22 (refer to Loading CDs on this page).

**Please Note:**
The CD Changer is designed for standard 12 cm CDs only. Using incorrect sized CDs (e.g. 8 cm or 3 inch CDs) may damage the Changer or disc, even if an adapter is used.

## CD Display




## CD Display Symbols

The display shows a 'CD IN' symbol and six square boxes that represent the six CD storage locations within the CD Changer. When a storage location within the CD Changer has no disc loaded, it's box is empty. When a CD is loaded into the CD Changer a number turns on inside the box to show there is a CD loaded in that storage location.
When a CD is playing, it's number icon flashes.

## Loading a CD

To load a CD into the CD Changer, briefly press the **LOAD** button 22. When the CD Changer is ready to accept the CD, 'INSERT DISC' will be displayed.

The Load Indicator Light 22 will flash green, and the radio will beep twice (if beeps are turned on, see page 39 of this handbook). Insert the CD with the label surface facing upwards into the CD slot 15 until the mechanism pulls the CD inside and it begins to play.
The LOAD function can be cancelled by briefly pressing the **EJECT** button 16, turning the radio OFF, or it will automatically cancel if no disc has been inserted for 10 seconds after the 'INSERT DISC' message is displayed.

## Loading all CDs

A function has been included to allow the loading of up to six CDs without having to repeatedly press the **LOAD** button.

To start the 'LOAD ALL DISCS' function, push and hold the **LOAD** button 22 for more than 2 seconds until a beep is heard (if beeps are turned on, see page 39 of this handbook) and the display shows 'LOAD ALL DISCS'. The display, beeps and Load Indicator Light 22 will prompt you when it is time to insert each CD.
This function will be cancelled automatically when no CD has been inserted for 10 seconds, by briefly pressing the **EJECT** button 16, or turning the radio OFF.

**Please Note:**
It is possible to insert and load CDs while the car's ignition key is turned off. The radio will turn off after loading the CDs.

### Ejecting a CD

To remove the currently selected CD, briefly press the **EJECT** button 16. When the CD is ready for removal from the CD slot 15, 'REMOVE DISC' will be displayed. The Eject Indicator Light 22 will flash green and the radio will beep (if beeps are turned on, see page 39 of this handbook).
If you wish to eject a CD that is not currently playing, briefly press the **EJECT** button 16, followed by Preset button **1** to **6** (7) of the desired CD location within two seconds.
The EJECT function can be cancelled by briefly pressing the **LOAD** button 22 or turning the radio OFF.

**Please Note:**
If an ejected CD is not removed within 10 seconds, it will be automatically reloaded to protect it from accidental damage.

### Ejecting all CDs

All CDs within the CD Changer can be ejected by pushing and holding the **EJECT** button 16 for more than 2 seconds until 'EJECTING ALL DISCS' appears on the display and beeps are heard (if beeps are enabled, see page 39 of this handbook).

The display, beeps and Eject Indicator Light 22 will prompt you when it is time to remove each CD.
The EJECT ALL DISCS function can be cancelled by briefly pressing the **LOAD** button 22, or turning the radio OFF.

**Please Note:**
It is possible to eject one or more CDs when the car's ignition key is off but the radio will switch off after removing the CD(s).

## Playing CDs

- Press the ON OFF button 13 if the previous mode was CD.
- Press the **CD** button 19 if the radio is on.
- Press the **MODE** button 23 on the steering wheel remote controls until CD mode is selected.
- Press the **MODE** button 33 on the rear roof remote controls (only if they are unlocked) until CD mode is selected.
- Press the **CD** button 19 if the car's accessories or ignition is on.

### Stopping a CD

Press the **FM** 20, **AM** button 21 or **DVD** button 17 briefly to stop CD playback and resume in radio or DVD mode or press the ON OFF button 13.

### Pausing a CD

Press the ▮▮ (Pause) button 13 to pause the CD playback. 'CD PAUSED' will be shown on the display. Press it again to continue playing the CD.

### CD Endless Playback

When the CD Changer reaches the end of a CD it automatically loads and plays the next CD. If no other CD is available, it returns to the start and plays the current CD.

### Disc Selection

When more than one disc has been loaded into the CD Changer, you can select which one to play by the following methods:

- Briefly press a preset button **1** to **6** (7) to directly select which disc number to play. Preset button **1** plays disc 1, Preset button **2** plays disc 2 etc.
- Briefly press the TUNE DISC button 3 to select the next disc.
- Briefly press the TUNE DISC button 6 to select the previous disc.
- Press and hold the NEXT button 24 on the steering wheel remote control or the NEXT button 29 on the rear roof remote control (only if it is unlocked) for 2 seconds or more to select the next available disc.
- Press and hold the NEXT button 24 on the steering wheel remote control or the NEXT button 30 on the rear roof remote control (only if it is unlocked) for 2 seconds or more to select the previous disc in the CD Changer.

### Track Selection

Press the SEEK TRACK button 14 to go on to the next track of the current CD, or press repeatedly until the desired track is reached.

Press the SEEK TRACK button 1 to go back to the start of the current track, or press repeatedly until the desired track is reached.

### Fast Forward / Fast Back (Track Cue / Review)

Press and hold the SEEK TRACK 1 or SEEK TRACK 14 button to rapidly move backward or forward within the current track.

### CD Scan

Press the CD SCAN button 4 to play the first 10 seconds of the first track on each disc in the CD Changer.

To cancel this function, press the CD SCAN button 4 again.

### CD Repeat

Press the CD RPT button 3 to replay the current disc. When the player reaches the end of the CD, it will automatically begin again at the start of the CD instead of changing to the next CD.

To cancel this function, press the CD RPT button 3 again.

### CD Random

Press the CD RDM button 2 to randomly play all tracks on all the CDs in the CD Changer. To cancel this function, press the CD RDM button 2 again.

If the SEEK TRACK 14 or TUNE DISC 3 is pressed whilst in random mode, the next random selection will be made immediately.

### Track Scan

Press the TRK SCAN button 4 to play the first 10 seconds of each track on the current CD.
Press again to cancel Track Scan and listen to the current track.

### Track Repeat

Press the TRK RPT button 3 to replay the current track continuously.
Press it again to cancel Track Repeat.

### Track Random

When this feature is selected, all tracks on the current CD will be played in random order.

To select the Random Play, press TRK RDM button 2 during CD playback.

To cancel the Random Play, press the TRK RDM button 2 again.

If the SEEK TRACK ⏭ 14 button is pressed whilst in random play mode, the next random selection will play.

### CD Changer Memory

Under severe vibration, the CD laser may not be able to maintain the extremely precise focus needed to read the tiny pits on the surface of the CD. When the laser focus is temporarily lost, the data being read from the CD will also be temporarily interrupted. Your CD Changer is therefore fitted with a memory buffer that holds approximately seven seconds of music which is used to prevent interruption over severely bumpy surfaces. Should the severe vibration last for longer than seven seconds, the memory buffer may become empty and playback will be interrupted or stop until the mechanism has time to refocus, read the disc and refill the memory buffer. This situation should very rarely occur under normal driving conditions.

### Playing recordable CDs (CD-Rs or CD-RWs)

It is possible to play CD-Rs on this radio, however, depending on the type/condition of the recording equipment and the blank disc used, some CD-Rs may not play consistently or at all. CD-RWs (rewritable CDs) are not compatible with this radio and will not play.

## Error Messages from the CD Changer

In some cases the Changer may have problems playing, loading, or ejecting some CDs. If this happens, one of the following error messages may appear on the display:

1. 'CD MECH ERROR': A CD may be stuck in the Changer and cannot be played, loaded or ejected, or there may be some other problem with the player that requires attention.

2. 'CD MECH ERROR': The Changer mechanism is too hot. Allow it to cool down before resuming operation.

3. 'CD PLAY ERROR': A CD cannot be read. Check if the CD has been loaded upside down (the label surface should be facing upwards). This message may also be displayed if a CD is dirty or scratched. Inspect the CD surface for problems and clean if necessary.

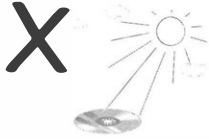
The player will switch to radio mode after displaying the error message for several seconds.
Consult your Holden Retailer if an error message keeps occurring.

# Notes on Compact Discs & DVDs

- Handle the Disc by its edge and avoid touching the playing surface.

- Do not stick paper labels, tape etc., or write on either surface.

- Do not expose the Disc to direct sunlight or a heat source such as a hot air duct, for prolonged periods.



- Before inserting a Disc into the player check the playing surface and clean with a suitable cleaning cloth. Wipe the Disc from the centre outwards, rather than in a circular motion. See diagram opposite.

- Do not use solvents such as petrol, thinners etc. Use commercially available Disc cleaners.

# DVD Player Operation

## DVD Player

The DVD Player allows you to play Digital Versatile Disc's (DVD's) which may be viewed on two video screens mounted in the front seat headrests.

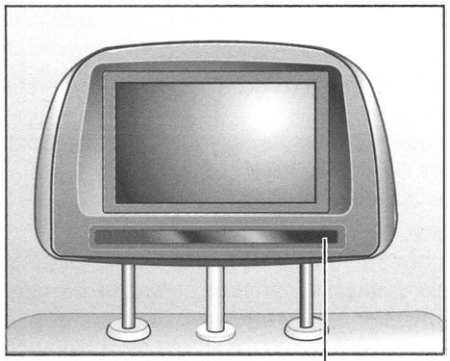
The DVD player is located under the rear seat. The DVD player can be controlled by the buttons on the DVD player or by the buttons on the DVD remote control.

**IMPORTANT:**

1. **The DVD Player is for rear seat passengers only. The driver cannot safely view the video screens while driving and should not try to do so.**
2. **Prolonged use of the DVD system while the engine is not running can drain the vehicle battery and may prevent the car from starting.**

## Video Screens

The video screens are located in the rear of the front seat headrests. The video screen contains the infrared receiver (behind a dark tinted window) for the remote control.



Infrared Receiver Window

Avoid directly touching the video screen, as damage may occur. To clean the video screens, wipe them then with a soft cloth that is damp with water.

## DVD Remote Control

To use the remote control, aim it at the tinted window below either of the video screens and press the desired button. Direct sunlight or very bright light may affect the ability of the DVD system to receive signals from the remote control. If the remote control does not seem to be working, the batteries may need to be replaced. See 'Battery Replacement' later in this section.

Objects blocking the line of sight may also affect the function of the remote control.

The buttons on the remote control can be illuminated by pressing the remote control illumination button 61 on the remote control. The button illumination will automatically turn off after a short period of time.

### Battery Replacement

To change the batteries in the remote control, do the following:

1. Remove the battery compartment door located on the back of the remote control.
2. Replace the two AA batteries in the compartment. Make sure that they are installed correctly.
3. Close the battery door securely.

**Please Note:**

- Do not store the remote control in heat or direct sunlight. This could damage the remote control and it may not be covered by your car's warranty.
- If the remote control is to be stored for a long period of time, remove the batteries and keep them in a cool, dry place.

## Playable Disc Types

As well as DVD's, the DVD player will also play audio CDs and Video CD's (VCD). Home recorded CDs (CD-R or CD-RW formats) may play back, however cannot be guaranteed because of the disc characteristics or recording condition.

The DVD player will only play DVD's of the appropriate DVD zone/ region code for the country that the vehicle was sold in. The DVD zone/ region code is printed on the jacket of most DVD's.

| DVD Region Code (Zone) | Zone/ Region |
|---|---|
| 1 | United States, Canada |
| 2 | Japan, Europe, South Africa, and Middle East (including Egypt) |
| 3 | South East Asia and East Asia (including Hong Kong) |
| 4 | Australia, New Zealand, Pacific Islands, Central America, Mexico, South America, and the Caribbean |
| 5 | Eastern Europe (Former Soviet Union), Indian subcontinent, Africa, North Korea, and Mongolia |
| 6 | China |
| 7 | Reserved |
| 8 | Special international venues (aeroplanes, cruise ships, etc.) |

## Loading a DVD

Turn the radio on by pressing the ON OFF button 13. To load a DVD into the DVD player, gently insert it with the label facing upward into the DVD load/ remove slot 41 until the mechanism pulls it inside. While the disc is loading, dashes will appear in the top left-hand corner of each video screen.

If the DVD player is off, the player will automatically turn on and begin to play the DVD.

**Please note:**

Sound will be restricted to the DVD headphone jacks 46 / 48 until DVD source is selected using the **DVD** button 17 on the radio, or the **MODE** button on the rear roof or steering wheel mounted remote controls (see 'Selecting DVD mode' on page 25).

## Ejecting a DVD

To remove a DVD from the DVD player, press the DVD eject button 35.

**Please Note:**
If a disc is ejected from the player, but is not removed, the DVD player will reload the disc within 25 to 30 seconds. The disc will then be stored in the DVD player to protect the disc from accidental damage. The DVD player will not resume play of this disc automatically.

## Selecting DVD Mode

1. Turn the radio on by pressing the ON OFF button 13 on the radio.
2. Select DVD mode by:

- Pressing the **DVD** button 17 on the radio, or
- Pressing the **MODE** button 23 on the steering wheel remote control until DVD mode is selected, or
- Pressing the **MODE** button 33 on the roof remote controls until DVD mode is selected.

The DVD Player and Video Screens will turn on automatically. DVD audio will be heard through the car's speakers.

**Please Note:**
The DVD player can also be turned on independently using the DVD Player On/Off button 34 on the DVD Player or the DVD Remote Control 50. In this case, the DVD Player and Video Screens will turn on, however the DVD sound will only be heard through headphones (not supplied) plugged into the DVD headphone jacks 46 / 48 on the DVD player.

The volume to the headphones may be controlled by the headphone volume control knobs 45 / 49. Turn the knobs clockwise to increase the volume, and anti-clockwise to decrease the volume.

DVD sound will only be heard through the car's speakers or the supplied headphones (headphone jacks located either side of the centre child seat anchorage point) if DVD mode is selected using the **DVD** button 17 on the radio, the steering wheel remote switches 23 or the roof remote controls 33.

## Playing DVDs

Press the play/ pause button on the face of the DVD player 39 or on the DVD remote control 68 to start DVD playback.

**Please Note:**
Some DVD's will not allow you to fast forward or skip the copyright or previews. Some DVD's will begin playing after the previews have finished. If the DVD does not begin to play the main title, refer to the on-screen instructions, as the DVD may be displaying a menu to select from.

### Resume Playback

To resume playback of a DVD, press the **DVD** button 17 on the radio, or the **MODE** button on the roof or steering wheel remote controls until DVD mode is selected.
As long as the disc has not been ejected and the stop button has not been pressed twice, the movie will resume play from where it was last stopped. If the disc has been ejected, or if the stop button has been pressed twice, the disc will resume play at the beginning.

## Stopping DVD Playback

To stop DVD playback, press and release the stop button on the DVD remote control 57 or the DVD player 23, or select another source (e.g. AM, FM or CD) using the radio, steering wheel or roof remote controls.

## Pausing a DVD

To pause a DVD while playing, press the play/ pause button on the DVD remote control 68 or the face of the DVD player 39. Press either button again to continue playing the DVD.

## Chapter Selection

Whilst an audio CD is comprised of 'tracks', a DVD is comprised of 'titles'. Each title may be sub-divided into 'chapters'.

You can select a desired chapter on a DVD by:

- Pressing the Previous Track/ Chapter button 58 or the Next Track/ Chapter Button 69 on the DVD remote control, or
- Pressing the UP or DOWN direction buttons 43 on the DVD player. Press the UP button to advance the chapter, or press the DOWN button to view the previous chapter, or
- Using the numeric keypad on the DVD remote control 59. To select a chapter between 1 and 10, press the corresponding number on the DVD remote control. To select a chapter higher than 10, use the **10+** button.

  For example:
  To select 13 **1 → 10+ → 3**
  To select 34 **3 → 10+ → 4**
  To confirm the selected chapter number, press the **ENTER** button 63 on the DVD remote control, or alternatively, the DVD will automatically begin playback at the selected chapter after 2-3 seconds.
- To clear a chapter selection, press the **C** button 60 on the DVD remote control.

## Fast Forward / Fast Back

To rapidly move backwards or forwards within the current chapter:

- Press the fast forward button 67 or the fast reverse button 55 on the DVD remote control. To resume playback at normal speed, press the fast forward or fast reverse button again, or press the play/ pause button on the DVD remote control 68 or on the DVD Player 39.
- Press the LEFT or RIGHT direction buttons 43 on the DVD player. Press the LEFT button to move backwards, or press the RIGHT button to move forwards. To resume playback at normal speed, press the LEFT or RIGHT button again, or press the play/ pause button on the DVD remote control 68 or on the DVD Player 39.

## Error messages from the DVD player

In some cases, the DVD player may have trouble playing, loading or ejecting DVD's. If this happens, one of the following error messages may be displayed on the video screens:

1. 'Disc Format Error': This message will be displayed if a disc is inserted upside down, if the disc is not able to be read or if the disc format is not compatible with the DVD player.
2. 'Load/Eject Error': This message will be displayed if the disc is not properly loaded or ejected.
3. 'Disc Play Error': This message will be displayed if the DVD player cannot play the disc. Severely damaged discs will cause this error.
4. 'Region Code Error': This message will be displayed if the zone/ region code of the DVD is not compatible with the DVD player.
5. 'No Disc': This message will be displayed if the PLAY button is pressed and no disc is in the player.

## On-Screen Menu's

The system provides several on-screen menus, which may be used to select preferences or make adjustments.

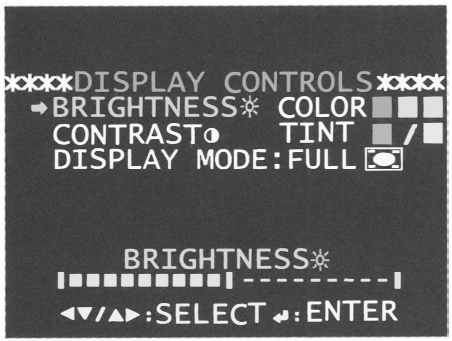
To remove an on-screen display from the video screen, press the **C** button 60 on the DVD remote control, or allow the on-screen display to time out.

## Display Menu

The display menu can be used to modify various video screen display characteristics such as brightness, colour and contrast.

To access the display menu, press the **DISP** button 53 on the DVD remote control or the ▢ button on the DVD player 42.

The following on-screen display will appear on the video screen:

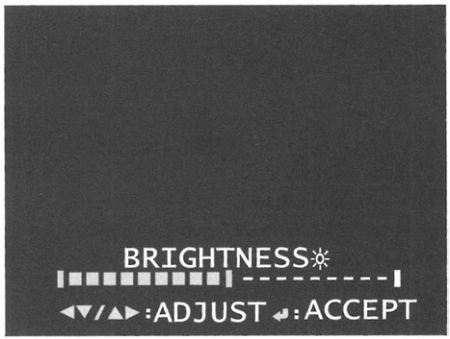



**Please note:**

Each video screen is adjusted separately. By pressing the **DISP** button 53 once, the Display Menu will appear on the left-hand video screen. Pressing the **DISP** button 53 button a second time will make the Display menu appear on the right hand video screen. Adjustments will only affect the screen that is currently displaying the Display menu.

### To Adjust Brightness

To adjust the brightness of the screen, use the menu navigation buttons on the DVD remote control 52 or on the DVD player 43 to highlight 'BRIGHTNESS' in the display menu. Press the **ENTER** button on the DVD remote control 63 or on the DVD player 44, and the following display will appear on the video screen:



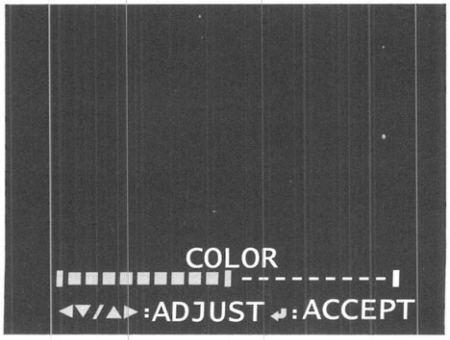

Press the LEFT or RIGHT direction buttons on the DVD remote control 52 or on the DVD player 43 to adjust the brightness of the video screen. Pressing the RIGHT button increases the brightness, while pressing the LEFT button decreases the brightness.

The video screen brightness will adjust as the buttons are pressed. When the desired brightness is achieved, press the **ENTER** button on the DVD remote control 63 or on the DVD player 44, or allow the on-screen display to time out.

**Please Note:**
The screen brightness can be set differently for day or night viewing. This is determined by whether the car's park or headlamps are off or on, screen adjustments made with the car's headlamps on will only be used under these conditions.

## To Adjust Colour

To adjust the colour of the screen, use the menu navigation buttons on the DVD remote control 52 or on the DVD player 43 to highlight 'COLOR' in the display menu. Press the **ENTER** button on the DVD remote control 63 or on the DVD player 44, and the following display will appear on the video screen:

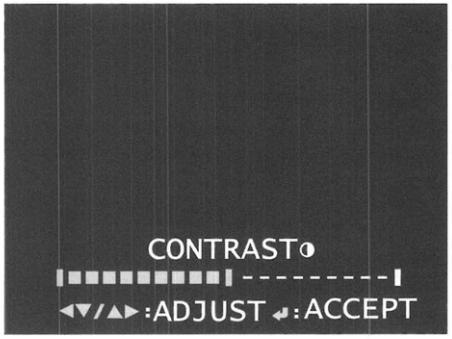



Press the LEFT or RIGHT direction buttons on the DVD remote control 52 or on the DVD player 43 to adjust the colour of the video screen. Pressing the RIGHT button increases the colour (red), while pressing the LEFT button decreases the colour.

The video screen colour will adjust as the buttons are pressed. When the desired colour is achieved, press the **ENTER** button on the DVD remote control 63 or on the DVD player 44, or allow the on-screen display to time out.

## To Adjust Contrast

To adjust the contrast of the screen, use the menu navigation buttons on the DVD remote control 52 or on the DVD player 43 to highlight 'CONTRAST' in the display menu. Press the **ENTER** button on the DVD remote control 63 or on the DVD player 44, and the following display will appear on the video screen:

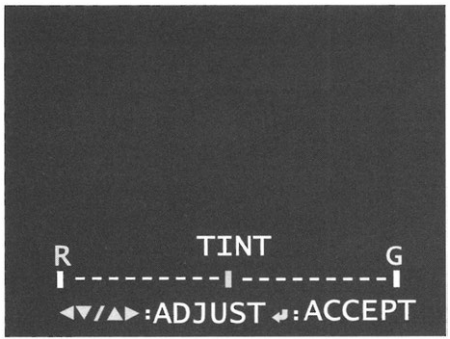



Press the LEFT or RIGHT direction buttons on the DVD remote control 52 or on the DVD player 43 to adjust the contrast of the video screen. Pressing the RIGHT button increases the contrast, while pressing the LEFT button decreases the contrast.

The video screen contrast will adjust as the buttons are pressed. When the desired contrast is achieved, press the **ENTER** button on the DVD remote control 63 or on the DVD player 44, or allow the on-screen display to time out.

### To Adjust Tint

To adjust the tint (red or green bias) of the screen, use the menu navigation buttons on the DVD remote control 52 or on the DVD player 43 to highlight 'TINT' in the display menu. Press the **ENTER** button on the DVD remote control 63 or on the DVD player 44, and the following display will appear on the video screen:



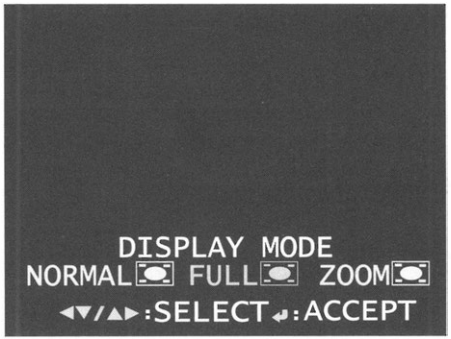

Press the LEFT or RIGHT direction buttons on the DVD remote control 52 or on the DVD player 43 to adjust the tint of the video screen. Pressing the RIGHT button decreases the tint (increases the green bias), while pressing the LEFT button increases the tint (increases the red bias).

The video screen tint will adjust as the buttons are pressed. When the desired tint is achieved, press the **ENTER** button on the DVD remote control 63 or on the DVD player 44, or allow the on-screen display to time out.

### To adjust Display Mode

DVD movies may be recorded in various formats (e.g. normal, widescreen, etc.). The video display may be adjusted to achieve the preferred appearance.

To adjust the display mode of the screen, use the menu navigation buttons on the DVD remote control 52 or on the DVD player 43 to highlight 'DISPLAY MODE' in the display menu. Press the **ENTER** button on the DVD remote control 63 or on the DVD player 44, and the following display will appear on the video screen:

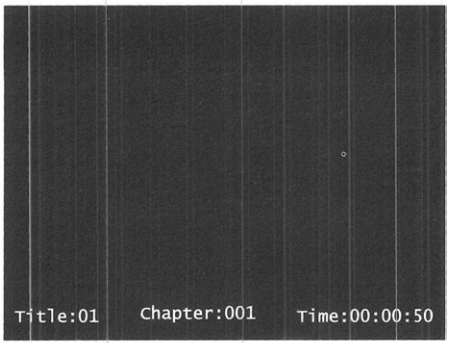



Press the LEFT or RIGHT direction buttons on the DVD remote control 52 or on the DVD player 43 to adjust the display mode of the video screen. Scroll through the three available display mode options of Normal, Full or Zoom.

The video screen display mode will adjust as the buttons are pressed. When the desired display mode is achieved, press the **ENTER** button on the DVD remote control (63) or on the DVD player (44), or allow the on-screen display to time out.

## Track/Chapter Information

Information on the playing disc (DVD, CD or VCD) may be viewed on the video screen by pressing and holding the ▢ button (42) on the DVD player. The following display will appear on the video screens:




To clear the Track / Chapter information from the video screens, press and hold the ▢ button (42) on the DVD player.

# Advanced DVD Video Features

### Invalid Operation Icon

Some functions will not be available with some DVDs or at certain times during playback. If a button is pressed for a function that is not supported by the DVDs or cannot be achieved at the time, the invalid operation icon ✠ will be displayed on the video screen.

### DVD Title Menu

Some DVDs may contain more than one 'Title' and may have a 'Title' menu that lists all of the titles on the disc. In this case, the title menu may be viewed on the video screen by pressing the **TITLE** Button (51) on the DVD remote control.

If the ✠ symbol appears on the video screen after pressing the **TITLE** button, the disc does not have a title menu.

### DVD Menu

DVDs generally have their own menu's which show the disc contents, language and subtitle options, artist information and additional features.

To access the DVD menu, press the **MENU** button on the DVD remote control (62) or the ▤ button on the DVD player (40). The DVD menu will appear on the video screens. Use the menu navigation buttons on the DVD remote control (52) or on the DVD player (43) to highlight a desired item. Press the **ENTER** button on the DVD remote control (63) or on the DVD player (44) to select the item.

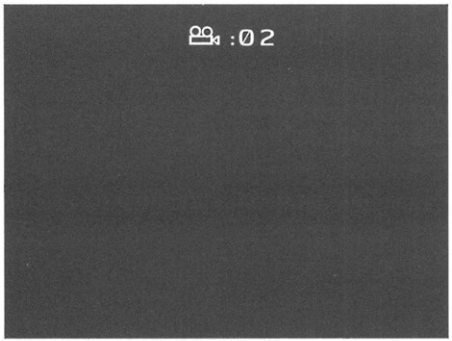
To exit the current menu and return to the previous menu, press the **BACK** button (64) on the DVD remote control.

If the ✠ symbol appears on the video screen after pressing the **MENU** button, the disc does not have a DVD menu.

## Selecting a scene angle of DVD Video

A variety of scene angles may be selected if the DVD contains 'multi-angle' scenes, where multiple cameras were used to shoot the same scene from different angles. If angles are available, '' will appear on the screen.

To select a scene angle, press the **ANGLE** button 65 on the DVD remote control. The following on-screen symbol will appear on the video screens:

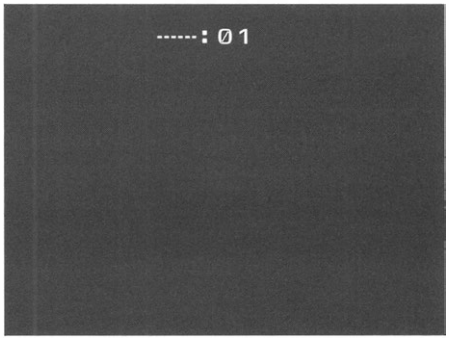



Press the **ANGLE** button 65 repeatedly until the desired angle is selected. Each press of the **ANGLE** button will advance the angle number. When the desired angle is achieved, press the **C** button on the DVD remote control 60 to clear the on-screen display, or allow the on-screen display to time out.

## Subtitles Selection

DVDs can contain subtitle options. The subtitles may be turned on or off, and viewed in various languages. Where subtitles are available, [------] will appear on the screen.

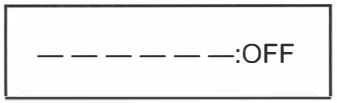
To change the subtitle language while a DVD is playing, press the **SUBTITLE** button 66 on the DVD remote control. The following symbol will appear on the DVD screen:




Press the **SUBTITLE** button 66 repeatedly until the desired subtitle language is selected. Each press of the **SUBTITLE** button 66 will advance the subtitle number.

When the desired subtitle language is achieved, press the **C** button on the DVD remote control 60 to clear the on-screen display, or allow the on-screen display to time out.

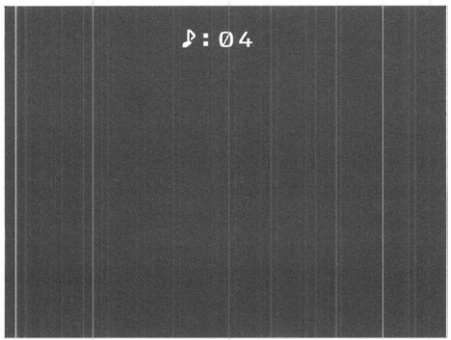
Subtitles may be turned off by pressing the **SUBTITLE** button 66 repeatedly until the following appears on the video screen:



### Audio Language Selection

DVDs may contain the audio in various languages.

To change the audio language while a DVD is playing, press the **AUDIO** button 54 on the DVD remote control. The following symbol will appear on the DVD screen:

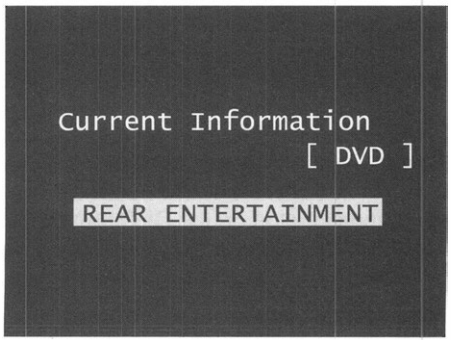



Press the **AUDIO** button 54 repeatedly until the desired audio language is selected. Each press of the **AUDIO** button 54 will advance the audio track number. When the desired sound track is achieved, press the **C** button on the DVD remote control 60 to clear the on-screen display, or allow the on-screen display to time out.

## Auxiliary Input (RCA) Jacks

The auxiliary input jacks 47 allow you to connect audio and video from an auxiliary device such as a camcorder or a video game unit to the DVD player just as you would to a standard television. Standard RCA cables are needed to connect the auxiliary device to the Auxiliary Input jacks 47. The yellow connector inputs video and the red and white connectors input right and left stereo audio. Refer to the manufacturer's instructions for proper connection of your auxiliary device.

To use the auxiliary inputs on the DVD player, connect an external auxiliary device to the colour-coded auxiliary input jacks 47 and turn both the auxiliary device and the DVD Player power on. If the DVD Player had been previously in the DVD player mode, you will need to press the **SRCE** button on the DVD remote control 56 or on the DVD Player 37. The following on-screen display will appear on the video screen:



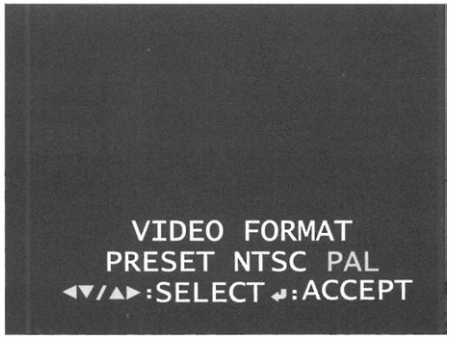
Pressing the **SRCE** button on the DVD remote control 56 or on the DVD Player 37 will toggle the Rear Seat Entertainment system between the auxiliary device (AUX) and the DVD player (DVD).

### How to Change the Video Format when in the Auxiliary Mode

The auxiliary input video format is preset to PAL. In some cases, the video format may be in NTSC system. To change the video format, follow these steps:

1. Press the **DISP** button 53 on the DVD remote control or the ▢ button 42 on the DVD player. The following on-screen display will appear on the video screen:

2. Use the menu navigation buttons on the DVD remote control 52 or on the DVD player 43 to highlight 'VIDEO FORMAT' on the display menu.
3. Press the **ENTER** button on the DVD remote control 63 or on the DVD player 44 to select Video Format. The following on-screen display will appear on the video screen:




4. Use the menu navigation buttons on the DVD remote control 52 or on the DVD player 43 to select the desired video format.
5. Press the **ENTER** button on the DVD remote control 63 or on the DVD player 44 to accept the change.

**Please Note:**

Selection of video format is only available whilst in Auxiliary mode.

Each screen must be adjusted individually to the correct video format. By pressing the **DISP** button 53 on the DVD remote control or the ▢ button 42 on the DVD Player once, the Display Menu will appear on the left-hand video screen. Pressing the **DISP** button 53 on the DVD remote control or the ▢ button 42 on the DVD Player a second time will make the Display menu appear on the right hand video screen.

# Steering Wheel Remote Controls

To increase driving safety and improve ease of operation, some of the radio functions can be controlled by the remote controls on the steering wheel.
The following functions are available (illustration: see fold-out page at the start of this handbook):

## Overview

| No. | Symbol | Function |
|---|---|---|
| 23 | MODE | Source select: FM1 / FM 2 / AM / CD / DVD / FM1 etc. |
| 24 | ▲ NEXT | Radio Mode: Next preset station<br>CD Mode: Next track<br>CD Mode: Push and hold: Next disc |
| 25 | NEXT ▼ | Radio Mode: Previous preset station<br>CD Mode: Previous track<br>CD Mode: Push and hold: Previous disc |
| 26 | MUTE | Mute Volume |
| 27 | ▲ VOL | Increase Volume |
| 28 | VOL ▼ | Decrease Volume |

## Volume Adjustment

The ▲VOL button 27 or VOL▼ button 28 adjusts the volume up or down respectively. The buttons can either be pressed and held until the desired volume is reached, or briefly pressed several times to raise or lower the volume gradually.

## MUTE

The **MUTE** button 26 instantly reduces the volume of the radio by a large amount (20 decibels).

Mute can be cancelled by pressing the button again, increasing the volume using either the remote control ▲VOL button 27 or the radio volume knob 11, or turning the radio off and on.

## Source Selection

Press the **MODE** button 23 to turn the radio on (only if the car's ignition key is in the Accessories or Ignition position) or scroll through all of the sources in the following order:
FM1– FM2 – AM – CD – DVD – FM1 etc.
Or, if the 'ASM' indicator is shown on the display:
FM ASM – AM ASM – CD – DVD – FM ASM etc.
Briefly press the **ASM** button 12 to switch between ASM and normal radio bands.

## Preset Station Select or CD Track/Disc Select (▲NEXT or NEXT▼)

Briefly pressing the ▲NEXT button 24 on the steering wheel remote will perform the following functions:

- Radio – Cycles through the stored radio stations on the current AM or FM band in increasing preset number.
- CD – Advances to the next track on the CD.

Pushing and holding this button for two seconds or more advances the CD Changer to the next disc.

Briefly pressing the NEXT▼ button 25 on the steering wheel remote will perform the following functions:

- Radio – Cycles through the stored radio stations on the current AM or FM band in decreasing preset number.
- CD – Returns to the start of the current track, or previous track if less than one second has been played.

Pushing and holding this button for two seconds or more selects the previous disc in the CD Changer.

# Rear Roof Remote Controls

To imporve ease of operation, some of the radio functions can be controlled by by the remote controls on the rear roof console. The following functions are available (illustration: see fold-out page at the start of this handbook).

## Overview

| No. | Symbol | Function |
|---|---|---|
| 29 | ▶ NEXT | Radio Mode: Next preset station<br>CD Mode: Next track<br>CD Mode: Push and hold: Next disc |
| 30 | ◀ NEXT | Radio Mode: Previous preset station<br>CD Mode: Previous track<br>CD Mode: Push and hold: Previous disc |
| 31 | VOL▼ | Decrease Volume<br>Mute Volume (together with VOL▲ button 32) |
| 32 | VOL▲ | Increase Volume<br>Mute Volume (together with VOL▼ button 31) |
| 33 | MODE | Source select: CD / DVD / FM1 / FM 2 / AM etc. |

**Please Note:**

- The rear roof mounted remote controls will operate in a slightly different way if rear headphones are being used (see page 37 for further details).
- DVD source can be selected from the roof mounted remote controls, but all DVD operations must be done using the DVD remote control supplied with the car, or directly from the controls on the DVD player located under the rear seat. Refer to DVD Player Operation on page 23 for further information).

## Volume Adjustment

The VOL▲ button 32 or VOL▼ button 31 adjusts the volume up or down respectively. The buttons can either be pressed and held until the desired volume is reached, or briefly pressed several times to raise or lower the volume gradually.

## MUTE

Pressing both the VOL▲ 32 and VOL▼ 31 buttons at the same time instantly reduces the volume of the audio system by a large amount (20 decibels).
Mute can be cancelled by:

- Simultaneously pressing both buttons again.
- Increasing the volume using the volume knob 11, or the steering wheel or roof remote control VOL▲ buttons 27 or 32.
- Turning the radio off and on.

## Source Selection

Press the **MODE** button 33 to turn the radio on (only if the car's ignition key is in the Accessories or Ignition position) or scroll through all of the sources in the following order:
FM1– FM2 – AM – CD – DVD – FM1 etc.
Or, if the 'ASM' indicator is shown on the display:
FM ASM – AM ASM – CD – DVD – FM ASM etc.
Briefly press the **ASM** button 12 on the radio to switch between ASM and normal radio bands.

### Preset Station Select or CD Track / Disc Select (NEXT or NEXT)

Briefly pressing the NEXT button 29 on the rear roof remote controls will perform the following functions:

- Radio – Cycles through the stored radio stations on the current AM or FM band in increasing preset number.
- CD – Advances to the next track on the CD.

Pushing and holding this button for two seconds or more advances the CD Changer to the next disc.

Briefly pressing the NEXT button 30 on the rear roof remote controls will perform the following functions:

- Radio – Cycles through the stored radio stations on the current AM or FM band in decreasing preset number.
- CD – Returns to the start of the current track, or previous track if less than one second has been played.

Pushing and holding this button for two seconds or more selects the previous disc in the CD Changer.

## DVD Remote Control

Refer to DVD Remote Control section on page 23.



# Headphones & Multi-Mode Operation

The car is provided with two sets of stereo headphones stored in the fold-down rear seat armrest storage compartment.

To activate the headphones, plug them into one of the two headphones sockets located under the hinged cover near the back window (together with the centre child seat anchorage point.) 'HEADPHONES ON' will be shown briefly on the display and the headphone symbol ∩ will remain displayed. The rear speakers will turn off, and the headphones can be controlled by the rear roof remote controls.

**Please Note:**

- Activating the headphones disables the DSP and POS functions if they are turned on.
- Changing settings on the rear roof remote controls, while in headphone mode, may affect the sound from the front speakers if the same source is being played in both the front and rear of the car (refer to 'Multi-Mode operation' on page 37).

To deactivate the headphones, either unplug them, or press the headphone ∩ button 10 on the radio. 'HEADPHONES OFF' will flash briefly on the display.

### Headphone ∩ Selector 10

The ∩ button 10 on the radio allows the headphones to be turned on or off without unplugging them. If the headphones are plugged in and operating, briefly pressing the ∩ button 10 turns them off and turns the rear speakers back on. 'HEADPHONES OFF' will be shown briefly on the display and the headphone symbol will no longer appear on the display.

The sound that was previously playing through the front speakers will start playing through the rear speakers.

Briefly pressing the 🎧 button 10 once more (with the headphones plugged in but not operating) will turn the headphones back on and turn the rear speakers off. 'HEADPHONES ON' will be shown briefly on the display and the headphones symbol 🎧 will reappear on the display.

**Important:**

- DO NOT ATTEMPT TO INSERT INCORRECT PLUGS OR FOREIGN OBJECTS INTO THE HEADPHONE JACK SOCKETS.
- The headphones supplied with the car are not designed to plug into the headphone sockets located on the front of the DVD player. If these sockets are used with appropriate headphones (not supplied), they will only provide sound when the DVD player is in use. They will not mute the rear speakers or provide sound from any other source such as the radio or CD Changer.

## Rear Roof Remote Control Locking / Unlocking

The rear roof remote controls can be disabled (locked) if desired by pushing and holding the headphone selector 🎧 button 10 for longer than two seconds. 'REAR REMOTE LOCKED' will be shown on the display while in this condition. To unlock the rear roof remote controls, press and hold the headphone selector 🎧 button 10 for more than two seconds once more.

## Multi-Mode Operation

When the headphones are first plugged in, the sound through them will be the same as that of the front speakers. However, different modes, e.g. Radio, CD or DVD, can be played simultaneously through the headphones and front speakers. For example, DVD can be played through the headphones and radio can be played through the front speakers.

**Please Note:**
Any two modes can be used simultaneously, but it is not possible to listen to different radio stations at the same time as they are both considered to be the same mode (Radio).

To change the mode for the front speakers, press the **MODE** button 23 on the steering wheel remote controls or the appropriate button (CD, DVD, AM or FM) on the radio fascia. To change the mode for the headphones, press the **MODE** button 33 on the rear remote controls in the roof.

## Rear Roof Remote Control Operation With Headphones

When the headphones are plugged in and operating, pressing any of the rear remote controls (except for the VOL▲ 32 or VOL▼ 31 buttons) only updates the display to show what is currently playing through the headphones. This may differ from what is playing through the front speakers. It will not perform the requested function until it is pressed a second time. 'REAR REMOTE' will be shown on the display for two seconds. After this time the display will show the information relating to the headphones for eight seconds. During this time, any rear remote button pressed will respond immediately.

This is to permit the user to confirm what is playing through the headphones before making any changes since the display normally shows whatever is playing through the front speakers.

**Please Note:**
If rear remote controls do not seem to be responding, ensure that they are not 'locked' ('REAR REMOTE LOCKED' shown on the display). Refer to 'Rear Roof Remote Control Locking / Unlocking' on page 37.

## VOL▲ / VOL▼ buttons

The VOL▲ button 32 and VOL▼ button 31 on the rear roof remote controls adjusts the headphone volume level up and down. The buttons can either be pressed and held until the desired volume level is reached, or briefly pressed several times to raise or lower the volume gradually.

**Please Note:**
If the headphone volume seems too low after adjusting the VOL▲ button 32 to a high setting, ensure that the secondary (fine adjustment) volume control located on the headphone lead is set to maximum, and that the 'ST/MONO' switch on the same control is set to 'ST'.

The secondary volume control enables individual volume adjustment of the headphones if two sets are plugged in. It should normally be set to maximum.

## NEXT button 29

Briefly pressing the NEXT button 29 on the rear roof remote control while the headphones are operating will perform the following functions (remember that the first press of the button will only update the display to show what is currently playing through the headphones, a second press is needed to perform the intended function):

- Radio – Cycles through preset radios stations on the current AM or FM band in increasing preset number.
- CD – Advances to the next track of the current disc. Pressing and holding this button advances the CD player to the next disc.

## NEXT button 30

Briefly pressing the NEXT button 30 on the rear remote control while the headphones are operating will perform the following functions (remember that the first press of the button will only update the display to show what is currently playing through the headphones, a second press is needed to perform the intended function):

- Radio – Cycles through preset radios stations on the current AM or FM band in decreasing preset number.
- CD – Returns to the start of the current track on the current disc. Repeating this operation will select the previous track/s.
  Pressing and holding this button causes the CD player to select the previous disc.

**Please Note:**
If both the headunit and the headphones are playing the same mode, any changes made using the NEXT 29 or NEXT 30 button will apply to both. This will also apply if changes are made from the steering wheel remote controls or the buttons on the radio itself.

## MODE 33

Pressing this button allows the mode of operation to be changed. Press the button several times to scroll through the various modes – Radio, CD or DVD. Remember that the first press of the button will only update the display to show what is currently playing through the headphones, a second press is needed to actually change modes.

**Please Note:**
If radio is already being used through the front speakers, only the waveband currently being used can be selected (e.g. if FM1 is being used, the mode button will only scroll through FM1, CD or DVD). If radio is not being used, then each selectable band i.e. FM1, FM2 and AM will be included in addition to CD and DVD modes.



# Additional Features

**Please Note:**
The features discussed below can also be adjusted through the car's Option Menu that appears in the centre display of the instrumental panel when ignition is turned on. Refer to the car's Owner Handbook for further information (note that only one method of Option adjustment can be used at a time).

## Confirmation Beeps

Audible beeps are used to confirm various actions of the radio such as storing a radio station. The beeps can be turned on or off using the Options Menu. See 'Options Menu Adjustment' on page 41.

- **ALL BEEPS ON:** The radio will make a beep sound when storing radio stations or to confirm the LOAD ALL or EJECT ALL function has started, or beep twice when it is time to insert or remove a CD from the CD Changer.
- **CD BEEPS ONLY:** The radio will beep twice when it is time to insert or remove a CD from the CD Changer.
- **BEEPS OFF:** No beeps are made by the radio.

## Speed Dependent Volume (SDV)

The SDV system adjusts the radio volume depending on the car's speed. As the car's speed increases, the volume of the radio also increases to compensate for driving noise (i.e. noise from the road or car's engine etc).

**Please Note:**

This feature will never completely compensate for driving noise. There are other variable factors such as road surface, wind noise, windows open, engine speed etc., that may alter the interior noise for any given road speed.

For this reason there are five different levels of compensation available to allow you to find one that best suits your average driving conditions.

You can select the compensation rates between 0 (off) and 5 (maximum compensation) in the Options Menu. See 'Options Menu Adjustment' on the next page.

## Dynamic Distortion Limiting (DDL)

Your radio is fitted with a system that limits the amount of amplifier distortion that you can hear. When this feature is turned on it continuously monitors the quality of the signal to the speakers. When the signal distortion exceeds preset limits the radio will automatically limit or reduce the volume until the distortion is minimised. The system is dynamic so that it is always monitoring the sound to try to deliver the selected volume level without distortion. Under some circumstances distortion may be heard for a very short time until the system has taken the necessary steps to limit it.

**Please Note:**

The main source of distortion in music is the low frequency bass caused by drums or large instruments. Tracks that feature very strong bass may trigger the distortion limiting system which will then reduce the volume to minimise the distortion. Increasing the Bass control 11 or EQ Boost control 11 may also result in a reduced volume level due to the emphasised bass. If desired, the Dynamic Distortion Limiting can be turned off in these circumstances so that the radio will deliver a higher volume level. Naturally, distortion will also be increased. Please refer to the 'Options Menu Adjustment' section on the next page for details on how to turn distortion limiting on and off.

## Options Menu Adjustment

Confirmation Beeps, Speed Dependent Volume and Dynamic Distortion Limiting, can all be adjusted using the Options Menu:

1. Turn off the radio using the ON OFF button 13.
2. Push and hold the ON OFF button 13 and the preset **1** button 7 until the display shows 'OPTION MENU', then release the buttons. The display will then show the current setting for Confirmation Beeps.
3. Press the volume knob 11 briefly to scroll through the options [Confirmation Beeps, Speed Dependent Volume (SDV) and Dynamic Distortion Limiting (DDL)], and their current settings.
4. Turn the volume knob 11 clockwise or anti-clockwise to adjust the displayed setting.

### Exiting the Options Menu

When all adjustments have been made press the ON OFF button 13 to exit the menu. The adjustments made to the Confirmation Beeps, SDV or DDL will become effective the next time the radio is turned on.

**Please Note:**
If no buttons are pressed or turned for eight seconds the radio will automatically exit the menu and turn on.

## Master Reset

The radio has a reset function built in to enable you to instantly reset all adjustable parameters to the factory standard. This feature is most useful when adjustments have been made that affect the sound quality or operation of the radio and you are unsure of how to return the original neutral settings. Master Reset will make the following changes:

- Bass, Treble, Fader and Balance to standard
- DDL on
- Confirmation Beeps on: All beeps on
- Speed Dependent Volume to setting 2
- Equalizer off (and Boost to standard)
- Listening Positions (POS) off
- DSP effects off (and Delay and Echo to standard)

### Performing the Master Reset

1. Turn off the radio.
2. Simultaneously press and hold the preset **4** button 7 and the **ON** button 13 for 3 seconds.

After the reset, the radio will turn on with the standard settings, no message will be displayed.

## Car Telephone

This radio includes a telephone input facility. The telephone connection point in the car's wiring (see your Owner's Handbook) contains circuits that run directly to the radio. If a mobile phone hands-free kit with suitable features (such as a mute line and wiring for a separate speaker) has been connected to it, the sound of the radio will be muted when the phone rings and the voice of the caller will be heard through the car's speakers. When the call ends the radio will return to the previous mode.

During a call 'VOICE IN' will be shown on the display.

If the radio system is off, it will turn on for the telephone call if the car's accessories or ignition is already switched on.

If a call is in progress when the accessories are turned off, the radio will remain turned on in Telephone mode until the phone call is completed.

Volume, Bass, Treble, Fader and Balance can all be adjusted in the Telephone mode without affecting these settings in radio, CD or DVD mode.

**Important:**

When this feature is used for the first time, the volume may need to be adjusted on the phone as well as the radio. This should be done while a call is being made. Firstly, adjust the phone's volume to a medium level using the volume control on the phone itself, then adjust the radio's volume to a comfortable listening level. The radio's volume may now be adjusted as required to compensate for variations in the mobile phone signal quality or changes in the background noise within the car e.g. if the window is wound down.

**Please Note:**

If the call sounds unusually distorted, the volume setting on the phone itself may need to be adjusted until the sound quality is improved.

Please contact your Holden Retailer or Blaupunkt for further information.

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# 471

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